




**Weathermaster® Series  
50HJQ004, 005, 006 & 007**

**SINGLE-PACKAGE  
HIGH-EFFICIENCY HEAT PUMP UNITS  
ELECTRIC HEAT — OPTIONAL**

- **PERFORMANCE DATA**
- **CERTIFIED DIMENSION PRINT**
- **CERTIFIED ROOF CURB  
DIMENSION PRINT**



Date:	Supersedes:	<b>50HJQ004, 005, 006 &amp; 007 SINGLE-PACKAGE HIGH-EFFICIENCY HEAT PUMP UNITS, ELECTRIC HEAT — OPTIONAL</b>	50HJQ	Rev: -5SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	



**DESCRIPTION**

50HJQ units are one-piece, high-efficiency heat pump units, with a low profile, prewired, tested and charged at the factory. The units have convertible supply and return openings and are intended for installation on an accessory curb (ordered separately), or for slab mounting (for horizontal duct connections). Units are designed to accept field-installed electric heaters.

Units may be ordered with an array of factory options as well as several choices of field-installed electric heat per unit.

**FEATURES**

SEERs up to 12.0.  
EERs up to 10.0.  
Standard one-year full product warranty.  
Five-year protection plan for the compressor motor.  
Low outdoor temperature cooling operation to 25° F (–4° C) as standard.  
Units are tested and certified by ARI and certified by UL and UL, Canada as a total unit. Factory-run test printout included in each rooftop.  
24-volt control circuit, with resettable circuit breaker.  
Exclusive Cycle-LOC™ compressor anti-cycle protection.  
Two-in. disposable-type return air filters in dedicated rack.  
Scroll hermetic compressor with internal line break and overload protection, self-lubricating with internal discharge muffler.  
Refrigerant circuits contain a filter drier to trap dirt and moisture.  
Adjustable belt drive indoor fan standard on all units, with permanently lubricated motors.  
Noncorrosive condensate pan with self-draining sloping design and both bottom and side drain connections.  
Thru-the-bottom power entry capability.

Single-point electrical connections on field-installed electric heat units.  
Indoor and outdoor coils constructed of aluminum fins mechanically bonded to seamless copper tubes.  
Direct drive propeller outdoor fan totally enclosed with permanently lubricated bearings.  
Prepainted cabinet with primer inner panels, certified at 500-hr salt spray test and noncorrosive screws.  
Large, easily removable panels provide ready access to unit components for rapid removal or maintenance.  
Filter access door for filter access and maintenance that requires no tools.  
Heat pump units with field-installed electric heat with accessory single-point electrical power connection — UL approved.  
Reliable accurate control circuit with color coded wires and easy accessible terminal board.  
Low-pressure/loss-of-charge, freeze protection, and high-pressure safety switches.  
Acutrol™ metering device precisely controls flow to each circuit individually.  
State-of-the-art defrost control board which may be easily configured for defrost cycles of 30, 50, or 90 minutes.

**PERFORMANCE DATA**

Operating Weight \_\_\_\_\_ lbs (unit) \_\_\_\_\_ lbs (curb)

**COOLING**

Net Total Capacity \_\_\_\_\_ Btuh @ °F Condenser Air Temp

Net Sensible Capacity \_\_\_\_\_ Btuh

Total Unit Power Input \_\_\_\_\_ kW

\_\_\_\_\_ °F Outdoor Air Temp

Indoor Entering Air db \_\_\_\_\_ °F    wb \_\_\_\_\_ °F

CFM \_\_\_\_\_ Ext Static Pressure \_\_\_\_\_ in. wg

SEER/EER \_\_\_\_\_

**HEATING**

Power Input to Unit \_\_\_\_\_ kW

Integrated Capacity \_\_\_\_\_ Btuh

Indoor Operating Air Temp \_\_\_\_\_ °F db

Outdoor Air Temp \_\_\_\_\_ °F (Winter Design)

Electric Capacity Req'd \_\_\_\_\_ Btuh

Rating at 70% R.H. Outdoors \_\_\_\_\_ kW Heater Selected \_\_\_\_\_

COP/HSPF \_\_\_\_\_ High \_\_\_\_\_ Low

**ELECTRICAL DATA**

Power Supply to Unit \_\_\_\_\_ Volts \_\_\_\_\_ Phase \_\_\_\_\_ Hz

Minimum Circuit Amps \_\_\_\_\_ Maximum Overcurrent Protection (Fuse Only) \_\_\_\_\_

**OPTIONS AND ACCESSORIES**

**Factory-Installed Options**

- ☐ Durablade Economizer
- ☐ EconoMiSer
- ☐ Copper/Copper Coils — Indoor, Outdoor, Both
- ☐ Non-Fused Disconnect Switch
- ☐ 115-Volt Convenience Outlet
- ☐ Apollo Direct Digital Controls

**Field-Installed Accessories**

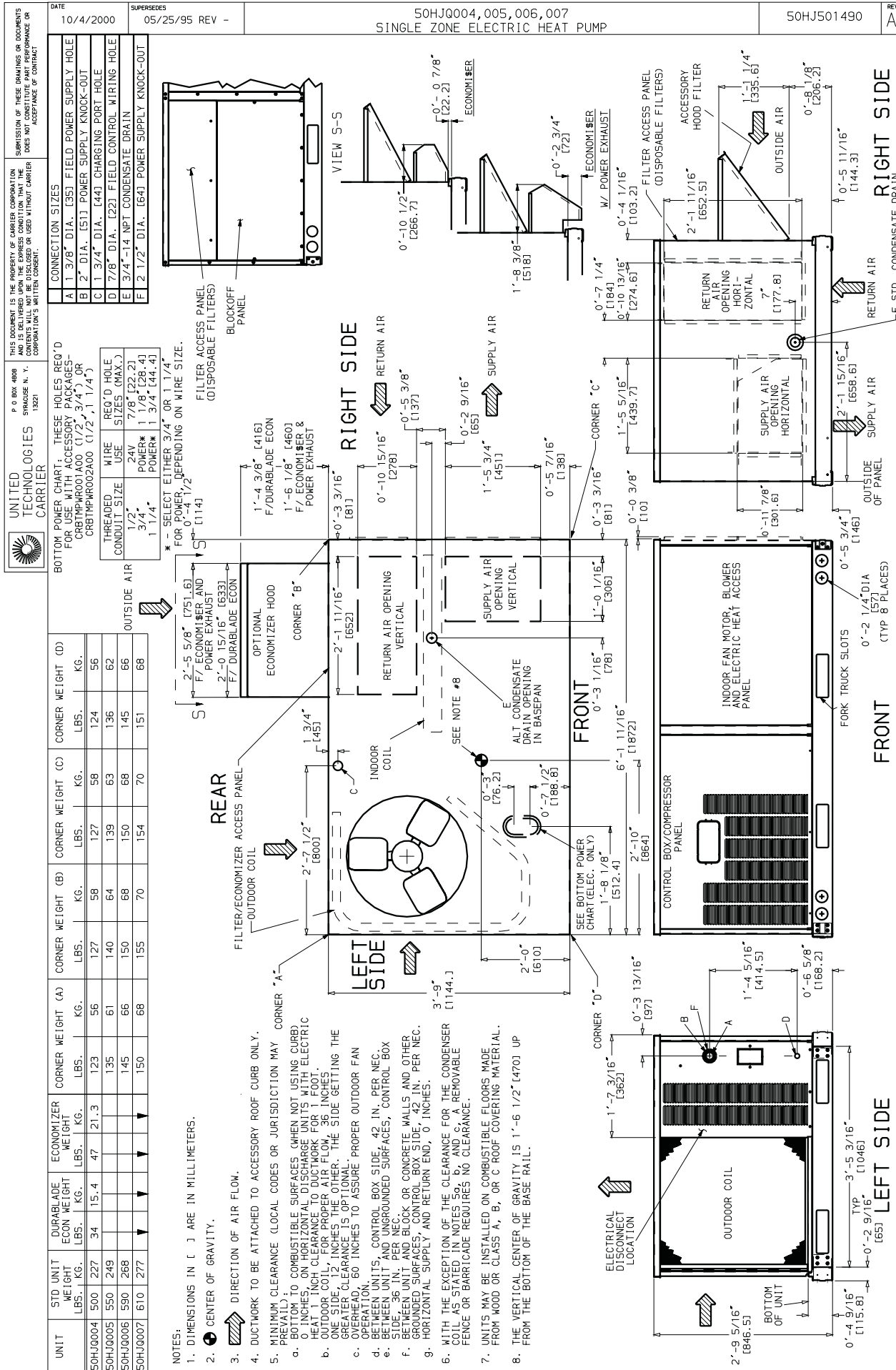
- ☐ Durablade Economizer
- ☐ EconoMiSer
- ☐ 25% Two-Position Damper
- ☐ 100% Two-Position Damper
- ☐ Solid-State Enthalpy Control
- ☐ Differential Enthalpy Control
- ☐ Roof Curb (14- or 24-in. Height)
- ☐ Thru-the-Bottom Electrical Connection Kit
- ☐ Time Guard® II Compressor Anti-Cycle Control
- ☐ Outdoor Coil Hail Guard
- ☐ Outdoor Coil Protector

- ☐ EconoMiSer/Power Exhaust
- ☐ Electric Heat kW \_\_\_\_\_
- ☐ Outdoor Coil Protector Grille
- ☐ –20 F Motormaster® Low Ambient Control Kit
- ☐ Programmable Set-Back Thermostat
- ☐ Electrical Mechanical Thermostat and Subbase
- ☐ 25% or 50% Manual Air Damper
- ☐ Indoor Fan/Filter Status Indicator
- ☐ CO<sub>2</sub> Sensors
- ☐ Other \_\_\_\_\_

CUT ALONG DOTTED LINE

CUT ALONG DOTTED LINE

CERTIFIED DIMENSION PRINT



**CERTIFIED ROOF CURB DIMENSION PRINT**

**UNITED TECHNOLOGIES CARRIER**

**NOTES:**

1. ROOFCURB ACCESSORY SHIPPED DISASSEMBLED.
2. INSULATION PANELS ARE IN MILLIMETERS. (SUPPLIED WITH CURB)
3. DIMENSIONS IN [ ] ARE IN MILLIMETERS. (SUPPLIED WITH CURB)
4. ROOFCURB: GALVANIZED STEEL.
5. ATTACH DUCTWORK TO CURB.
6. SEAL DUCTWORK TO CURB.
7. SEAL DUCTWORK TO CURB.
8. SEAL DUCTWORK TO CURB.

**CONNECTOR PKG. ACC.**

CONNECTOR PKG.	ACC.	C	D	ALT DRAIN HOLE	GAS	POWER	CONTROL
CRBTPMPWR001A00	CRBTPMPWR002A00	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
CRBTPMPWR003A00	CRBTPMPWR004A00	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	1/2" [12.7NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
CRBTPMPWR005A00	CRBTPMPWR006A00	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	1/2" [12.7NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]

**UNIT SIZE**

UNIT SIZE	A	B	C	D	ALT DRAIN HOLE	GAS	POWER	CONTROL
48/50 HJ/TJ/TF 004-007	1'-2" [356]	1'-4" [406]	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
50HJ0004-006	2'-0" [610]	1'-4" [406]	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]
50TJ0/TFQ 004-007	2'-0" [610]	1'-4" [406]	1'-9 11/16" [351]	1'-4" [406]	1 3/4" [44.5]	3/4" [19.1NPT]	3/4" [19.1NPT]	1/2" [12.7NPT]

**SECTION "C-C"**

**VIEW "A-A"**

**VIEW "B-B"**

**VIEW "C-C"**

**SCALE 1:4**

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